From the INTERNATIONAL SEARCHING AUTHORITY

To:

Gregory A. Hunt JENKINS, WILSON, TAYLOR & HUNT, P.A. SUITE 1200, UNIVERSITY TOWER

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND

& Pending US case

3100 TOWER BOULEVARD DURHAM, NC 27707	THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1)
	Date of mailing (day month year)
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs I and 4 below
1497/25PCT	
International application No. PCT/US06/41065	International filing date (day month year) 19 October 2006
Applicant SANTERA SYSTEMS, INC	
The applicant is hereby notified that the international s Authority have been established and are transmitted he	earch report and the written opinion of the International Searching rewith.
Filing of amendments and statement under Article I The applicant is entitled, if he so wishes, to amend the When? The time limit for filing such amendme international search report.	
Where? Directly to the International Bureau of WI 1211 Geneva 20, Switzerland, Facsimile N	
For more detailed instructions, see the notes on the	accompanying sheet.
2. The applicant is hereby notified that no international Article 17(2)(a) to that effect and the written opinion o	search report will be established and that the declaration under file International Searching Authority are transmitted herewith.
3. With regard to the protest against payment of (an) ad	Iditional fee(s) under Rule 40.2, the applicant is notified that:
the profest together with the decision thereon happlicant's request to forward the texts of both to	has been transmitted to the International Bureau together with the the protest and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the	he applicant will be notified as soon as a decision is made.
International Bureau. If the applicant wishes to avoid or s	ity date, the international application will be published by the postpone publication, a notice of withdrawal of the international and Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, ational publication.
International Bureau. The International Bureau will send international preliminary examination report has been or is to the public but not before the expiration of 30 months from the	•
examination must be filed if the applicant wishes to postpone	of some designated Offices, a demand for international preliminary the entry into the national phase until 30 months from the priority st, within 20 months from the priority date, perform the prescribed Offices.
In respect of other designated Offices, the time limit of 30 i months.	norths (or later) will apply even if no demand is filed within 19
See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet	applicable time limits, Office by Office, see the PCT Applicant's stile.
Name and marling address of the ISA/US Man Stop PCT Ath: ISA/US	Authorized officer:

Name and mailing address of the ISA/US	Authorized officer:
Mail Stop PCT Atin: ISA/US Commissioner for Patents	Blaine R. Copenheaver
P.O. Box 1450. Alexandria. Virginia 22313-1450. Facsimile No. 571-273-3201	Telephone No 571-272-7774

Form PCT/ISA/220 (January 2004)

See notes on accompanying sheet! DOCKET DATES: 5/18: 4/18/07 - DEM ASSIGNED ATTY: GAH FILE NO. 1497/25 PCT DOCKETED BY: per DATE: 4/30/07 * Dal to file 105 in 1497/25 is 7/26/07

From the INTERNATIONAL SEARCHING AUTHORITY

To: Gregory A. Hunt	PCT
JENKINS, WILSON, TAYLOR & HUNT, P.A. SUITE 1200, UNIVERSITY TOWER 3100 TOWER BOULEVARD DURHAM, NC 27707	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1)
	Date of mailing day month year) 26 APR 2007
Applicant's or agent's file reference 1497/25PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US06/41065	International filing date (day month year) 19 October 2006
Applicant SANTERA SYSTEMS, INC	
The applicant is hereby notified that the international s Authority have been established and are transmitted be	search report and the written opinion of the International Searching
Filing of amendments and statement under Article I The applicant is entitled, if he so wishes, to amend the	9:
	ents is normally two months from the date of transmittal of the
Where? Directly to the International Bureau of WI 1211 Geneva 20, Switzerland, Facsimile N	PO, 34 chemin des Colombettes
For more detailed instructions, see the notes on the	
The applicant is hereby notified that no international Article 17(2)(a) to that effect and the written opinion o	search report will be established and that the declaration under f the International Searching Authority are transmitted herewith.
	ditional fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon h applicant's request to forward the texts of both s	has been transmitted to the international Bureau together with the the protest and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the	he applicant will be notified as soon as a decision is made.
4 Reminders	
International Bureau. If the applicant wishes to avoid or t	ity date, the international application will be published by the postpone publication, a notice of withdrawal of the international and Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, ational publication.
International Bureau. The International Bureau will send	the written opinion of the International Scarching Authority to the a copy of such comments to all designated Offices unless an be established. These comments would also be made available to e priority date.
examination must be filed if the applicant wishes to postpone	of some designated Offices, a demand for international preliminary the entry into the national phase until 30 months from the priority st, within 20 months from the priority date, perform the prescribed Offices.
In respect of other designated Offices, the time limit of 30 remonths	nonths (or later) will apply even if no demand is filed within 19
See the Annex to Form PCT/IB/301 and, for details about the Guide. Volume II, National Chapters and the WIPO Internet	applicable time limits, Office by Office, see the PCT Applicant's site.
Name and mailing address of the ISA/US	Authorized officer:
Mail Stop PCT, Atln: ISA/US Commissioner for Patents	Blaine R. Copenheaver

Telephone No. 571-272-7774

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1497/25PCT	FOR FURTHER ACTION as well	see Form PCT/ISA/220 Il as, where applicable, item 5 below.		
International application No. PCT/US06/41065	International filing date (day/month/year) 19 October 2006	(Earliest) Priority Date (day/month/year) 18 November 2005		
Applicant SANTERA SYSTEMS, INC				
This international search report has be according to Article 18. A copy is bein	en prepared by this International Searching g transmitted to the International Bureau.	Authority and is transmitted to the applicant		
This international search report consists It is also accompanied by	s of a total of sheets. a copy of each prior art document cited in this	s report.		
15-71	e international search was carried out on the b	pasis of:		
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))				
b. With regard to any nucleo	tide and/or amino acid sequence disclosed i	n the international application, see Box No. 1.		
2. Certain claims were foun	d unsearchable (see Box No. II)			
3. Unity of invention is tacking (see Box No. III)				
4. With regard to the title,				
the text is approved as sub	- ,,			
the text has been established	ed by this Authority to read as follows:			
5. With regard to the abstract,				
the text is approved as sub	mitted by the applicant			
the text has been establish may, within one month fro	ed, according to Rule 38.2(b), by this Authori in the date of mailing of this international sear	ty as it appears in Box No. IV. The applicant reh report, submit comments to this Authority		
6. With regard to the drawings.				
a. the figure of the drawings to be	published with the abstract is Figure No. 1	additional data and the same an		
as suggested by the a	pplicant			
, ,,,,,,,,	uthority, because the applicant failed to sugge	-		
	uthority, because this figure better characteriz	tes the invention		
b none of the figures is to be	published with the abstract			

INTERNATIONAL SEARCH REPORT

International application No. PCT/US06/41065

IPC(8) - USPC -	SSIFICATION OF SUBJECT MATTER H04Q 7/00 (2007.01) 370/331 o International Patent Classification (IPC) or to both n	ational classification and IPC			
	DS SEARCHED				
Minimum do	ocumentation searched (classification system followed by 1Q 7/00, 7/20 (2007.01); H04L 12/28, 12/56, 12/66 (200/331, 401; 455/436-444				
Documentat	ion searched other than minimum documentation to the ex	tent that such documents are included in the	fields searched		
	ata base consulted during the international search (name o , IP.com, IEEEXplore, Google Patents	f data base and, where practicable, search te	rms used)		
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where a	opropriate, of the relevant passages	Relevant to claim No.		
Y	US 6,876,646 B1 (DORE et al) 05 April 2005 (05.04,20	005) entire document	1-39		
Υ	US 2005/0074017 A1 (QiAN et al) 07 April 2005 (07.0-	4.2005) entire document	1-39		
A	US 2005/0085181 A1 (TAO) 21 April 2005 (21.04.2009	5) entire document	1-39		
Α	US 2005/0048973 A1 (HOU et al) 03 March 2005 (03.	03.2005) entire document	1-39		
Α	{RADVISION} *implementing Media Gateway Control CURL: http://www.radvision.com/NR/rdonlyres/1C34D0RADVISIONMediaGatewayControlProtocol.pdf>) 27 July entire document	DAA-C455-428B-A839-306926516053/0/	1-39		
1	Further documents are listed in the continuation of Box C.				
* Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
tiling d	"E" earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other					
means "P" docum	em published prior to the international filing date but later than orty-date claimed	being obvious to a person skilled in the	e art		
	actual completion of the international search	Date of mailing of the international sear-	ch report		
26 February	, 2007	26 APR 2007			
Mail Stop PC	nailing address of the ISA/US CT, Attn: ISA/US, Commissioner for Patents	Authorized officer: Blaine R. Copenhea	aver		
	P.O. Box 1450, Alexandria, Virginia 22313-1450 Pot Helpdesk: 571-273-3300				

From the INTERNATIONAL SEARCHING AUTHORITY

To

PCT

Gregory A. Hunt JENKINS, WILSON, TAYLOR & HUNT, P.A. SUITE 1200, UNIVERSITY TOWER 3100 TOWER BOULEVARD DURHAM, NC 27707		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)				
					Date of mailing (day/month/year)	26 APR 2007
Applicant's or agent's file reference			value Avendance (Market Called	FOR FURTHER ACTION See paragraph 2 below		
lista	rnation	nal application l	√o.	International filing date	(doy month year)	Priority date (day month year)
PC	T/USC	6/41065		19 October 2006		18 November 2005
IPO US	C(8) - SPC -	H04Q 7/00 (370/331	(2007.01)	r both national classifica	ation and IPC	
Ар	olicant	SANTERA S	SYSTEMS, IN	C		
<u> </u>						
1	This o	opinion contains	s indications rela	sting to the following ite	ms:	
	\boxtimes	Box No. I	Basis of the op	inion		
	\Box	Box No. 11	Priority			
		Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	一	Box No. IV	Lack of unity of invention			
		Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement				
Box No. VI Certain documents cited						
	Box No. VII Certain defects in the international app		in the international appl	ication		
	Box No. VIII Certain observations on the international application					

	FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.					
	a writ	iten reply togeth	ier, where appro-	considered to be a writte priate, with amendments n of 22 months from the	, before the expiration	the applicant is invited to submit to the IPEA of 3 months from the date of mailing of Former expires later.
			see Form PCT/IS			
3	For ti	urther details, so	ee notes to Form	PCT/ISA/220.		
7:	րե ու	mading addres	s of the ISA/US	Date of completion of	this opinion	Authorized officer
Car	nmissibi	CT Altn. ISA/US ner for Patents 150, Alexandria, Vi	irginia 22313-1450	26 February 2007	7	Blaine Copenheaver PCT Helpoesk: 571-272-4300

Facsimile No. 571-273-3201 PCT OSP: 571-272-7774

International application No. PCT/US06/41065

Box	No. 1 Basis of this opinion	
i	With regard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).	
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence fisting table(s) related to the sequence listing	***************************************
	b. format of material on paper in electronic form	
	e. time of filing/furnishing contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filled or does not go beyond the application as filled, as appropriate, were furnished.	
4.	Additional comments:	

International application No. PCT/US06/41065

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-39	YE
	Claims	None	NC NC
Inventive step (IS)	Claims	None	YE
	Claims	1-39	NC NC
Industrial applicability (IA)	Claims	1-39	YE
	Claims	None	NC NC

Citations and explanations:

Claims 1-39 lack an inventive step under PCT Article 33(3) as being obvious over Dore et al. (US 6,876,646 B1) in view of Qian et al. (US 2005/0074017 A1).

Referring to Claims 1 and 39, Dore et al. discloses a method for distributed resource allocation between media gateways (MGs) in a cluster of MGs (20(1)-20(m), 25-(a)-25(1); col. 1, lines 6-8, fig. 1), and a computer program product comprising computer-executable instructions embodled in a computer readable medium (col. 9, lines 10-22, 30-34) for performing the method comprising; (a) communicating, between media gateways (MGs) in a cluster of MGs controlled by a media gateway controller (MGC 14, 16), available resources provided by each of the MGs (20(1)-20(m), 25(o)-25(1); col. 3, lines 24-33; col. 6, lines 6-10; fig. 1, 4); and (b) at the media gateways; (i) identifying resources required for a call (col. 4, lines 6-9, 23-25; col. 6, lines 46-48; 52-54; where resources are identified by collecting information); and (ii) applying rules to select resources for the call from the available resources (col. 6, lines 63-67; col. 7, lines 1-4). However, Dore et al. is silent on (iii) allocating the selected resources to process the call. Nevertheless, in disclosing methods and systems for media gateway resource allocation (par. 1; fig. 4), Olan et al. teaches dynamically allocating selected resources to process a call (par. 11; par. 14, lines 2-5, 14-15; par 25, lines 4-8). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to allocate the selected resources to process a call (par. 8).

Referring to Claim 2, Dore et al. (as discussed in the lack of inventive step of claim 1 above) discloses that communicating available resources includes communicating the available resources in response to a call setup message (call request) from the MGC (14; col. 6, lines 46-49; col. 9, lines 57-59; col. 10, lines 27-33; fig. 1).

Referring to Claim 3, Dore et al. (as discussed in the lack of inventive step of claims 1, 2 above) discloses that the call setup message (call request) Identifies a call context (originaling point, destination point, identification code, other information; col. 6, lines 29-34, 36-40, 46-48; col. 10, lines 12-34).

Referring to Claim 4, Dore et al. (as discussed in the lack of inventive step of claims 1, 2, 3 above) discloses that the call context identifies a pair of port identifiers (originating point, destination point) for connecting the call (col. 6, tines 29-34). However, Dore et al. is silent on the call context identifying conversion characteristics for the call. Nevertheless, Qian et al. teaches call context (call control information) identifying conversion characteristics for a call (par. 2, lines 2-5, 10-16). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include call context identifying conversion characteristics for the call in the invention of Dore et al. as taught by Olan et al. in order to identify the conversion media needed for converting the packets into the appropriate formats for the sending and receiving parties (par. 2, times 7-10).

Referring to Claim 5, Dore et al. (as discussed in the tack of inventive step of claim 4 above) is sitent on the conversion characteristics including at least one of hybrid echo cancellation (HEC), automatic level control (ALC), automatic level enhancement (ALE), automatic noise reduction (ANR), an international telecommunication union (ITU) series G coder/decoder (CODEC) conversion standard, and a voice over IP (VoIP) conversion standard. However, Qian et al. teaches conversion characteristics including an ITU series G CODEC conversion standard (par. 2, lines 5-9; par. 3, lines 1-6; par. 28, lines 8-10). Therefore, it would have been obvious to one of ordinary skill in the an at the time of the invention to have conversion characteristics including an ITU series G coder/decoder (CODEC) conversion standard in the invention of Dore et al. as taught by Olan et al. in order to convert the media packets into the appropriate formats for the sending and receiving parties (par. 2, lines 7-9).

Referring to Claim 6, Dore et al. (as discussed in the tack of inventive step of claims 1, 2, 3 above) is stient on identifying resources required for the call including comparing the call context with the available resources. However, Qian et al. teaches that a media gateway comparing a call context (local IP address, local UDP port) with the available resources (physical and fogical resources for a VoIP call; par. 11, par. 12, lines 10-14; par. 13; par. 14, lines 2-5; where the call context are compared with available voice resources, i.e. VoIP chip). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to compare the call context with the available resources in the invention of Dore et al. as taught by Qian et al. in order to identify the available resources that would provide the requested services.

Cont. in Supplemental Box (

International application No. PCT/US06/41065

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of

Box No. V

2. Citations and explanations:

Referring to Claim 7, Dore et al. (as discussed in the lack of inventive step of claim 1 above) is silent on communicating available resources includes communicating an inter-trunk port identifier associated with the call. However, Qian et al. teaches communicating available resources includes communicating an inter-trunk port identifier (UDP port#) associated with a call (par. 37, lines 1-11; par. 41, lines 1-10). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to communicate an inter-trunk port identifier associated with the call in the invention of Dore et al. as taught by Qian et al. in order to communicate the port number that would be used during the call/session (par. 37, tines 5-6).

Referring to Claim 8, Dore et al. (as discussed in the tack of inventive step of claim 1 above) discloses that communicating available resources includes communicating available local resources to a downstream MG (25) within the cluster (MG 25(o)-25(1); col. 3, lines 24-33; col. 6, lines 6-10; fig. 1, 4; where MG 20 communicates available resources to MG 25).

Referring to Claim 9, Dore et al. (as discussed in the lack of inventive step of claim 1 above) discloses communicating available resources includes communicating available resources on an upstream MG (20) to a downstream MG (25) within the cluster (MG 25(o)-25(1); col. 3, lines 24-33; col. 6, lines 6-10; fig. 1, 4).

Referring to Claim 10, Dore et al. (as discussed in the lack of inventive step of claim 1 above) is silent on the available resources include at least one of a resource for hybrid echo cancellation (HEC), a resource for automatic level control (ALC), a resource for automatic noise reduction (ANR), a resource for automatic level enhancement (ALE), a resource for packet voice tunneling including at least one of transaction free operation (TFO) and transaction free operation (TFO) and transaction free operation (TFO) and transaction free operation (TFO) through the cluster of MGs, a resource for coder/encoder (CODEC) conversion, a resource to manage music-on-hold broadcasting within a cluster, a resource to manage cellular text modern/teletype (CTMITTY) insertion, and no resource. However, Qian et al. leaches available resources including a resource for coder/encoder (CODEC) conversion (par. 2, lines 5-9; par. 3, lines 1-6; par. 28, lines 8-10). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a resource for CODEC conversion in the invention of Dore et al. as taught by Qian et al. in order to convert the media packets into the appropriate formats for the sending and receiving parties (par. 2, lines 7-9).

Referring to Claim 11, Dore et al. (as discussed in the lack of inventive step of claim 1 above) is silent on applying rules to select resources includes applying at least one of: (a) a rule to minimize a number of converting devices in a call path; (b) a rule to attempt to consolidate converting devices on one MG; (c) a rule to prefer converting devices closer to a terminating port over converting devices farther from the terminating port; (d) a rule that terminating ports decide which of the available resources are to be used; and (e) a rule to allow a terminating MG to override a resource selection made by an inter-connecting MG wherein the inter-connecting MG may have selected a locally available resource to modify a pulse code modulated (PCM) stream. However, Qian et al. leaches (d) a rule in which terminating ports decide which of the available resources are to be used (par. 10, lines 4-7; par. 11; par. 14, lines 2-5; par. 36, lines 1-6). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a rule that terminating ports decide which of the available resources are to be used in the invention of Dore et al. as taught by Qian et al. in order to prevent resources from being

Referring to Claim 12, Dore et al. (as discussed in the tack of inventive step of claim 3 above) is silent on allocating the selected resources includes selecting, from an MG within the cluster, a resource associated with an MG upstream from the MG within the cluster. However, Qian et al. teaches that allocating resources includes selecting a resource associated with an MG upstream (par. 11; par. 14, lines 1-5; par. 36, lines 4-10; fig. 4, 412). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to select, from an MG within the cluster, a resource associated with an MG upstream from the MG within cluster in the invention of Dore et al. as taught by Qian et al, in order to select only the resources which are needed at the time.

Referring to Claim 13. Dore et al. (as discussed in the lack of inventive step of claim 1 above) is silent on allocating the selected resources includes sending a resource control message from an MG to a neighboring MG within the cluster. However, Qian et al. teaches that the allocation of resources includes sending a resource control message (call control information; commands) from an MG to a neighboring MG (par. 2, lines 5-16; par. 35, lines 5-14). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to send a resource control message from an MG to a neighboring MG within the cluster in the invention of Dore et al. as taught by Qian et al. in order to provide commands controlling the appropriate use of resources.

Referring to Claim 14, Dore et al. (as discussed in the lack of inventive step of claims 1, 13 above) is silent on the resource control message including an upstream termination type associated with the call. However, Qian et al. teaches a resource control message including an upstream termination type (i.e. G.711 codec type) associated with a call (par. 2, lines 10-16; par. 27, lines 1-5; par. 28, lines 2-4, 8-10). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have a resource control message including an upstream termination type associated with the call in the invention of Dore et at, as taught by Qian et al, in order to identify the different codec types compatible with the system.

Referring to Claim 15, Dore et al. (as discussed in the lack of inventive step of claims 1, 13, 14 above) is silent on the termination type including at least one of an international telecommunication union (ITU) series G coder/decoder (CODEC) conversion standard and a Voice-over-IP (VoIP) conversion standard. However, Qian et al. teaches the termination type (terminal unit type) including an ITU series G CODEC conversion standard (i.e. G.711, G.726, G.729 codec types; par. 25, lines 4-8; par. 28, lines 2-4, 8-10). Therefore, it would have been covious to one of ordinary skill in the art at the time of the invention to have a termination type including an ITU series G CODEC conversion standard in the invention of Dore et al. as taught by Qian et al. in order to identify the different codec types compatible with the system.

(Cont. in Next Supplemental Box)

International application No. PCT/US06/41065

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Previous Supplemental Box;

Referring to Claim 16, Dore et al. (as discussed in the lack of inventive step of claims 1, 13, 14, 15 above) is silent on the ITU series G CODEC conversion standard including at least one of G.711 and G.723. However, Qian et al. teaches that the ITU series G CODEC conversion standard includes the G.711 codec type (par. 28, lines 8-10). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the ITU series G CODEC conversion standard including G.711 in the invention of Dore et al. as taught by Qian et al. because G.711 CODEC calls require only 100 kbps for transmission in both directions. Therefore, less bandwidth per call is used.

Referring to Claim 17, Dore et al. (as discussed in the lack of inventive step of claims 1, 13 above) is silent on the resource control message includes at least one device identifier to identify at least one of the available resources. However, Qian et al. teaches a resource control message including device identifiers (local IP address, local UDP port) to identify available resources (physical and logical resources for a VoIP call; par. 10, lines 4-7; par. 11; par. 13). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the Invention to have the include at least one device identifier to identify at least one of the available resources in the invention of Dore et al. as taught by Qian et al. in order to uniquely identify the resource that is needed during the current session (par. 37, lines 1-9).

Referring to Claim 18, Dore et al. (as discussed in the lack of inventive step of claim 1 above) also discloses that communicating available resources includes sending a resource available message from an MG (egress media gateway, 25) to a downstream MG (ingress media gateway, 20) within the cluster (MGs 20(1)-20(m); col. 4, lines 6-15; col. 5, lines 4-6, 11-16, 45-47; col. 6, lines 46-48; fig. 1, 4).

Referring to Claim 19, Dore et al. (as discussed in the lack of inventive step of claim 1 above) also discloses allocating the selected resources includes sending a resource select message (request message) from an MG (ingress media gateway, 20) to an upstream MG (egress media gateway, 25) within the cluster (MGs 25(0)-25(1); col. 4, lines 6-15; col. 5, lines 4-6, 11-16, 45-47; col. 6, lines 63-67; col. 7, lines 1-6, 10-13; fig. 1, 4).

Referring to Claim 20, Dore et al. discloses a system for distributed resource allocation between media gateways (MGs) in a cluster of MGs (cot. 1, lines 6-8, fig. 1), the system comprising: (a) a media gateway controller (MGC 14, 16); and (b) a plurality of media gateways (MGs) controlled by the MGC (14, 16) and forming a cluster of MGs (20(1)-20(m), 25-(0)-25(1); fig. 1), wherein the MGs are adapted to: (i) communicate, between the MGs in the cluster, available resources provided by each of the MGs (cot. 3, lines 24-33; cot. 6, lines 6-10; fig. 4); (ii) identify resources required for a call (cot. 4, lines 6-9, 23-25; cot. 6, lines 48-48; 52-54); and (iii) apply rutes to select resources for the call from the available resources (cot. 6, lines 63-67; cot. 7, lines 1-4). However, Dore et al. is silent on (iv) allocating the selected resources to process the call. Nevertheless, Qian et al. leaches allocating selected resources to process a call (par. 14, lines 2-5, 14-15; par 25, lines 4-8). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to allocate the selected resources to process a call (par. 8).

Referring to Claim 21, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 2 above.

Referring to Claim 22, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claims 20, 21 above) discloses the further recited features as discussed in the lack of inventive step of claim 3 above.

Referring to Claim 23, Dore et at, in view of Qian et at. (as discussed in the lack of inventive step of claims 20, 21, 22 above) discloses the further recited features as discussed in the lack of inventive step of claim 4 above.

Referring to Claim 24, Dore et al. In view of Qian et al. (as discussed in the lack of inventive step of claims 20, 21, 22, 23 above) discloses the further recited features as discussed in the lack of inventive step of claim 5 above.

Referring to Claim 25, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claims 20, 21, 22 above) discloses the further recited features as discussed in the lack of inventive step of claim 6 above.

Referring to Claim 25, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 7 above.

Referring to Claim 27. Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 8 above.

Referring to Claim 28, Dore et at. in view of Qlan et at. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 9 above.

Referring to Claim 29, Dore et at, in view of Olan et at. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features discussed in the lack of inventive step of claim 10 above.

Referring to Claim 30, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 11 above.

(Cont. in Next Supplemental Box)

International application No. PCT/US06/41065

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Previous Supplemental Box:

Referring to Claim 31, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 12 above.

Referring to Claim 32, Dote et at, in view of Qian et at. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 13 above.

Referring to Claim 33, Dore et al. in view of Clan et al. (as discussed in the lack of inventive step of claims 20, 32 above) discloses the further recited features as discussed in the lack of inventive step of claim 14 above.

Referring to Claim 34, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claims 20, 32, 33 above) discloses the further recited features as discussed in the tack of inventive step of claim 15 above.

Referring to Claim 35, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claims 20, 32, 33, 34 above) discloses the further recited features as discussed in the tack of inventive step of claim 16 above.

Referring to Claim 36. Doze et al. in view of Qian et al. (as discussed in the lack of inventive step of claims 20, 32 above) discloses the further recited features as discussed in the lack of inventive step of claim 17 above.

Referring to Claim 37, Dore et al. in view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 18 above.

Referring to Claim 38, Dore et al. In view of Qian et al. (as discussed in the lack of inventive step of claim 20 above) discloses the further recited features as discussed in the lack of inventive step of claim 19 above.

Claims 1-39 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.